



July 21, 2017

FACT SHEET

Protection of Stratospheric Ozone: New Listings for the Significant New Alternatives Policy Program in Refrigeration & Air Conditioning and Solvent Cleaning Sectors

Action Listing New Acceptable Substitutes

Section 612 of the Clean Air Act requires EPA to evaluate alternatives to ozone-depleting substances. EPA's Significant New Alternatives Policy (SNAP) program reviews substitutes in a comparative risk framework, using the same risk criteria for all SNAP decisions. Section 612 requires EPA to list as acceptable those substitutes that do not present a significantly greater risk to human health and the environment as compared with other substitutes that are currently or potentially available.

This determination of acceptability (Notice 33) expands EPA's SNAP list of acceptable substitutes, providing industry with more options in the refrigeration and air conditioning and cleaning solvents sectors.

Notice 33

What is included in the Notice?

• Twelve additional acceptable substitutes that reduce overall risk to human health and environment

Which industrial sectors are included?

- Refrigeration & Air Conditioning
- Cleaning Solvents

What health and environmental impacts of substitutes does EPA evaluate?

 Atmospheric effects, toxicity, flammability, occupational and consumer health/safety, local air quality, and ecosystem effects

SUMMARY OF ACCEPTABLE SUBSTITUTES

End-Use	Substitutes
Refrigeration & Air Conditioning	
Cold Storage Warehouses (New & Retrofit)	R-448A, R-449A, R-449B, R-453A
Industrial Process Refrigeration (New & Retrofit)	R-448A, R-449A, R-449B, R-453A, R-458A
Non-Mechanical Heat Transfer Systems (New & Retrofit)	HFE-7300 (1,1,1,2,2,3,4,5,5,5-decafluoro-3- methoxy-4-(trifluoromethyl)pentane)
Refrigerated Transport – Refrigerated Trucks and Trailers (New & Retrofit)	R-452A, R-452C
Retail Food Refrigeration – Remote Condensing Units (New & Retrofit)	R-407H, R-442A, R-452A, R-452C, R-453A, R-458A
Residential Dehumidifiers (New & Retrofit)	R-513A
Residential and Light Commercial Air Conditioning and Heat Pumps (Retrofit)	HFC-134a, R-458A
Cleaning Solvents	
Electronics Cleaning, Metals Cleaning, Precision Cleaning	HFE-7300 (1,1,1,2,2,3,4,5,5,5-decafluoro-3- methoxy-4-(trifluoromethyl)pentane)